

CLAIMS

1. A wireless communication system in site selection diversity transmit power control, wherein each base station determines whether the base station is a base station with a high possibility of being requested from a communication terminal to transmit data, based on a downlink state, in the communication terminal, of a downlink signal from the base station to the communication terminal, and transmits the determination result to a control station, and the control station transmits data for a downlink signal to the determined base station.

2. The wireless communication system according to claim 1, wherein the base station determines whether to request data to the communication terminal to the control station corresponding to a buffer usage amount in the base station, in addition to the downlink state, in the communication terminal, of the downlink signal from the base station to the communication terminal.

3. The wireless communication system according to claim 1, wherein the base station determines whether to request data to the communication terminal to the control station corresponding to required quality of the data to the communication terminal, in addition to the downlink state, in the communication terminal, of the downlink signal from the base station to the communication terminal.

4. A wireless communication system in site selection

diversity transmit power control, wherein each base station reports to a control station a downlink state, in a communication terminal, of a downlink signal from the base station to the communication terminal, and based

5 on the downlink state, the control station determines a base station with a high possibility of being requested from the communication terminal to transmit data, and transmits data for a downlink signal to the determined base station.

10 5. The wireless communication system according to claim 1, wherein the control station determines transmission priorities corresponding to required quality of data for a downlink signal.

6. A control station apparatus, in site selection

15 diversity transmit power control, comprising:

receiving means for receiving information on a base station with a high possibility of being requested from a communication terminal to transmit data, the base station determined based on a downlink state, in the

20 communication terminal, of a downlink signal from the base station to the communication terminal and;

transmitting means for transmitting data for a downlink signal according to the information.

7. A control station apparatus, in site selection

25 diversity transmit power control, comprising:

determining means for determining a base station with a high possibility of being requested from a

communication terminal to transmit data, based on respective downlink states, in the communication terminal, of downlink signals from base stations to the communication terminal; and

5 transmitting means for transmitting data for a downlink signal to the determined base station.

8. The control station apparatus according to claim 6, further comprising:

10 determining means for determining transmission priorities corresponding to required quality of data for a downlink signal.

9. A site selection diversity transmit power control method, comprising the steps of:

15 in each base station,

determining whether the base station is a base station with a high possibility of being requested from a communication terminal to transmit data, based on a downlink state, in the communication terminal, of a downlink signal from the base station to the communication 20 terminal; and

transmitting the determination result to a control station, and

in the control station,

transmitting data for a downlink signal to the 25 determined base station.

10. A site selection diversity transmit power control method, comprising the steps of:

in each base station,
determining whether to request data to the communication terminal to the control station corresponding to a buffer usage amount in the base station,
5 in addition to the downlink state, in the communication terminal, of the downlink signal from the base station to the communication terminal; and
transmitting the determination result to a control station, and
10 in the control station,
transmitting data for a downlink signal to the determined base station.

11. A site selection diversity transmit power control method, comprising the steps of:
15 in each base station,
reporting to a control station a downlink state, in a communication terminal, of a downlink signal from the base station to the communication terminal, and
in the control station,
20 determining a base station with a high possibility of being requested from the communication terminal to transmit data, based on the downlink state; and
transmitting data for a downlink signal to the determined base station.